

INTENDED USE & DESCRIPTION

For use as quantitative controls for the determination of cytokine concentrations in biological fluids. Concentrations have been assigned using R&D Systems® Quantikine kits. Controls are prepared in diluted porcine serum with preservatives. They contain recombinant human cytokines at low, medium and high concentrations. Controls are supplied lyophilized.

STORAGE & STABILITY

Unreconstituted controls should be stored at 2-8 °C and are stable for at least 6 months from date of receipt. Depending on the analyte of interest, reconstituted controls may be stable when stored at ≤ -20 °C. Users should evaluate the frozen stability of the controls in their application or discard after use.

REAGENT PREPARATION

Reconstitute each vial with the volume of deionized or distilled water indicated in the chart below.

PROCEDURE & EXPECTED VALUES

Controls should be used undiluted and assayed as unknown specimens.

The acceptable ranges (±3 SD) for the analytes in these controls are printed below. Due to possible variations in techniques and methodologies, it is recommended that each laboratory determine its own target range. Laboratories using other test systems should establish their own acceptable ranges as these assays may produce different values.

Analyte	Catalog #	Kit Diluent	Water Recon. Volume	Units	Lot # P265926	Lot # P265929	Lot # P265932
Human AgRP	DAGR00	RD5-23	1.0 mL	pg/mL	28.2-51.8	103-186	201-349
		RD6-10			29.0-61.6	108-212	200-395
Human CA9	DCA900	RD6-12	3.0 mL	pg/mL	65.1-115	200-341	430-701
Human CD23	DCD230	RD5-3	2.0 mL	pg/mL	151-246	442-721	899-1467
Human FGF-19	DF1900	RD5P (1:3)	3.0 mL	pg/mL	85.0-139	264-431	520-848
Human FGF-21	DF2100	RD6-10 (1:2)	2.0 mL	pg/mL	134-231	416-746	807-1317
Human Galectin-3	DGAL30 SGAL30 PDGAL30	RD5K (undiluted)	3.0 mL	ng/mL	0.684-1.37	2.02-3.80	3.98-6.56
		RD6X (1:5)			0.598-1.37	2.15-3.50	3.98-6.49
Human IL-19	D1900	RD5K	3.0 mL	pg/mL	153-249	467-762	911-1486
Human Urinary TIM-1/KIM-1/HAOCR	DKM100	RD6Q (1:2)	2.0 mL	ng/mL	0.685-1.25	2.17-3.54	4.33-7.07
Human TIMP-4	DTM400	RD6-31 (1:5)	2.0 mL	pg/mL	344-593	1039-1695	2046-3339
		RD6-31 (undiluted)			302-669	1141-1880	2242-3769
Human VEGF-C	DVEC00	RD6U (1:5)	2.0 mL	pg/mL	480-783	1392-2271	2860-4666
		RD6U (1:2)			481-785	1412-2304	2846-4945

TECHNICAL HINTS & LIMITATIONS OF THE PROCEDURE

- The ranges were determined using R&D Systems Quantikine kits. If expected values are not obtained, verify that the lot numbers on the vials correspond with the lot numbers listed above and the correct volume of deionized or distilled water was used for reconstitution of the controls.
- The results obtained with these controls depend upon several factors associated with methods and instrumentation. Test systems other than those supplied by R&D Systems may result in values that differ from those printed on this product datasheet.